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- (71) Applicant (for all designated States except US): AVENTIS PASTEUR, LTD. [CA/CA]; 1755 Steeles Avenue, Toronto, Ontario (CA).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BERINSTEIN, Neil [CA/CA]; 31 Burton Road, Toronto, Ontario (CA). GALLICHAN, Scott [CA/CA]; 1189 Britannia Road, Campbellville, Ontario (CA). LOVITT, Corey [CA/CA]; 14 Bambi Trail, Bolton, Ontario (CA). PARRINGTON, Mark [CΛ/CΛ]; 214 Melbourne Drive, Bradford, Ontario (CA). PEDYCZAK, Artur [CA/CA]; 1399 Colmar Avenue, Pickering, Ontario (CA). RADVANYI, Laszlo [CΛ/CΛ]; 337 Crosby Avenue, Richmond Hill, Ontario (CA). SINGH-SANDHU, Devender [CA/CA]; 100 Gayla Street, Thornhill, Ontario (CA).

- (74) Agent: YACOOB, Reza, K.; Aventis Pasteur Limited, 1755 Steeles Avenue West, Toronto, Ontario M2R 2T4 (CA).
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## (54) Title: TUMOR ANTIGENS BFA5 FOR PREVENTION AND/OR TREATMENT OF CANCER

MTKRKKTINLNIQDAQKRTALHWACVNGHEEVVTFLVDRKCQLDVLDGEHRTPLMKALQCHQEACANILIDSGADINL VDVYGNMALHYAVYSEILSVVAKLLSHGAVIEVHNKASLTPLLLSITKRSEQIVEFLLIKNANANAVNKYKCTALMLA VCHGSSEIVGMLLQQNVDVFAADICGVTAEHYAVTCGFHHIHEQIMEYIRKLSKNHQNTNPEGTSAGTPDEAAPLAER TPDTAESLVEKTPDEAAPLVERTPDTAESLVEKTPDEAASLVEGTSDKIQCLEKATSGKFEQSAEETPREITSPAKET SEKFTWPAKGRPRKIAWEKKEDTPREIMSPAKETSEKFTWAAKGRPRKIAWEKKETFVKTGCVARVTSNKTKVLEKGR SKMIACPTKESSTKASANDQRFPSESKQEEDEEYSCDSRSLFESSAKIQVCIPESIYQKVMEINREVEEPPKKPSAFK PAIEMQNSVPNKAFELKNEQTLRADPMFPPESKQKDYEENSWDSESLCETVSQKDVCLPKATHQKEIDKINGKLEESP NKDGLLKATCGMKVSIPTKALELKDMQTFKAEPPGKPSAFEPATEMQKSVPNKALELKNEQTWRADEILPSESKQKDY EENSWDTESLCETVSQKDVCLPKAAHQKEIDKINGKLEGSPVKDGLLKANCGMKVSTPTKALELMDMQTFKAEPPEKP SAFEPAIEMQKSVFNKALELKNEQTLRADEILPSESKQKDYEESSWDSESLCETVSQKDVCLPKATHQKEIDKINGKL EESPDNDGFLKAPCRMKVSIPTKALELMDMQTFKAEPPEKPSAFEPAIEMQKSVPNKALELKNEQTLRADQMFPSESK QKKVEENSWDSESLRETVSQKDVCVPKATHQKEMDKISGKLEDSTSLSKILDTVHSCERARELQKDHCEQRTGKMEQM KKKFCVLKKKLSEAKEIKSQLENQKVKWEQELCSVRLTLNQEEEKRRNADILNEKIREELGRIEEQHRKELEVKQQLE QALRIQDIELKSVESNLNQVSHTHENENYLLHENCMLKKEIAMLKLEIATLKHQYQEKENKYFEDIKILKEKNAELQM TLKLKEESLTKRASQYSGQLKVLIAENTMLTSKLKEKQDKEILEAEIESHH?RLASAVQDHDQIVTSRKSQEPAFHIA GDACLQRKMNVDVSSTIYNNEVLHQPLSEAQRKSKSLKINLNYAGDALRENTLVSEHAQRDQRETQCQMKEAEHMYQN EQDNVNKHTEQQESLDQKLFQLQSKNMWLQQQLVHAHKKADNKSKITIDIHFLERKMQHHLLKEKNBEIFNYNNHLKN RIYQYEKEKAETENS

(57) Abstract: The present invention relates to a nucleic acid encoding a polypeptide and the use of the nucleic acid or polypeptide in preventing and/or treating cancer. In particular, the invention relates to improved vectors for the insertion and expression of foreign genes encoding tumor antigens for use in immunotherapeutic treatment of cancer.

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